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1 [Web technologies and applications \(WTA\): WebUml: reverse engineering of web](#)



[applications](#)

Carlo Bellettini, Alessandro Marchetto, Andrea Trentini

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available:  [pdf\(681.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Web applications have become complex and crucial for many firms, especially when combined with areas such as CRM (Customer Relationship Management) and BPR (Business Process Reengineering). Since then the scientific community has focused attention to Web application design, development, analysis, testing, by studying and proposing methodologies and tools. This paper describes an automatic tool for the construction of UML models from existing Web applications. This tool, named WebUml, generates c ...

2 [Extracting usability information from user interface events](#)



David M. Hilbert, David F. Redmiles

December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.50 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Modern window-based user interface systems generate user interface events as natural products of their normal operation. Because such events can be automatically captured and because they indicate user behavior with respect to an application's user interface, they have long been regarded as a potentially fruitful source of information regarding application usage and usability. However, because user interface events are typically voluminous and rich in detail, automated support is generally ...

Keywords: human-computer interaction, sequential data analysis, usability testing, user interface event monitoring

3 [Special section: Reasoning about structure, behavior and function](#)



B. Chandrasekaran, Rob Milne

July 1985 **ACM SIGART Bulletin**, Issue 93

Publisher: ACM Press

Full text available:  [pdf\(5.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.